



## RAW SEQUENCE LISTING ERROR REPORT

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:**

Application Serial Number: 09/900,063A  
Source: 1/600  
Date Processed by STIC: 6/12/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
  - 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
- FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

RECEIVED  
JUN 19 2003  
TECH CENTER 1600/2



1600

RAW SEQUENCE LISTING

DATE: 06/12/2003  
TIME: 08:07:21

Input Set : A:\EP.txt  
Output Set: N:\CRF4\06122003\I900063A.raw

5 <110> APPLICANT: Rothschild, Max F.  
7                    Vincent, Amy L.  
9                    Tuggle, Christopher K.  
13 <120> TITLE OF INVENTION: PROLACTIN RECEPTOR GENE AS A GENETIC MARKER FOR INCREASED  
LITTER SIZE IN

**Does Not Comply  
Corrected Diskette Needed**

14 ANIMALS  
18 <130> FILE REFERENCE: P02285UD5  
22 <140> CURRENT APPLICATION NUMBER: US 09/900,063A  
24 <141> CURRENT FILING DATE: 2001-07-06  
28 <150> PRIOR APPLICATION NUMBER: US 08/812,208  
30 <151> PRIOR FILING DATE: 1997-03-06  
34 <150> PRIOR APPLICATION NUMBER: US 08/742,805  
36 <151> PRIOR FILING DATE: 1996-11-01  
40 <150> PRIOR APPLICATION NUMBER: US 60/022,180  
42 <151> PRIOR FILING DATE: 1996-07-19  
46 <160> NUMBER OF SEQ ID NOS: 18  
50 <170> SOFTWARE: PatentIn version 3.1  
54 <210> SEQ ID NO: 1  
56 <211> LENGTH: 20  
58 <212> TYPE: DNA  
60 <213> ORGANISM: Porcine  
64 <400> SEQUENCE: 1  
65 cccaaaacag caggagaacg  
68 <210> SEQ ID NO: 2  
70 <211> LENGTH: 20  
72 <212> TYPE: DNA  
74 <213> ORGANISM: Porcine  
78 <400> SEQUENCE: 2  
79 ggccaaatgtt tgaaaaatgga  
82 <210> SEQ ID NO: 3  
84 <211> LENGTH: 492  
86 <212> TYPE: DNA  
88 <213> ORGANISM: Porcine  
92 <220> FEATURE:  
94 <221> NAME/KEY: allele  
96 <222> LOCATION: (240)..(240)  
98 <223> OTHER INFORMATION: G/A polymorphic site  
102 <400> SEQUENCE: 3  
103 aggtcaacaa agatggacca ctggcgttgc tccaaaaaca gcaat  
105 cggaaaaacaa tgccggccctt aaccaaaacca aacaaatccg ccaat

20

30

$$r = a \text{ or } g$$

103	aagtcaaca	agatggaga	ctggcgttgc	tcccaaaca	gcaggagaac	ggcgcacccgc	60
105	cggagaaggc	ttggccccc	aaacccgca	aggataacgc	ccagggttc	ccgggtatgg	120
107	ataaccatc	ccttggtttgc	gtgcaggatc	cgcggatcgc	aaacctgtgc	ccgttggaa	180
109	aaccaaccaa	ggagaccccg	ccatccggc	cgcagaatcc	agttgcggaaa	gacccttgcgc	240
111	gtttccacac	ggcccccggc	cacttgac	acccgttgg	ttggctgtgc	tatccgtatc	300
113	ccggacgtt	tatgtacatc	ttttcaatgt	aqcttttttt	atttggatgt	ggtttatacaat	360

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003  
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Input Set : A:\EP.txt  
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115 gtggggttt ttcaggctc cactacgtga aatgcactct accagagaaa gctcgaaaat 420  
 117 ggggttagaa tgacactacc cagactcaca gttcactct cttcatgctc catttcaac 480  
 119 cacttgccct tt 492  
 122 <210> SEQ ID NO: 4  
 124 <211> LENGTH: 20  
 126 <212> TYPE: DNA  
 128 <213> ORGANISM: Unknown  
 132 <220> FEATURE:  
 134 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin  
 receptor  
 135 were used to design the degenerate primer  
 137 <220> FEATURE:  
 139 <221> NAME/KEY: misc\_difference  
 141 <222> LOCATION: (13)..(13)  
 143 <223> OTHER INFORMATION: C/T *use "y" y=c or +*  
 147 <400> SEQUENCE: 4  
 148 tcacaaggc taa~~a~~aaagatg 20  
 151 <210> SEQ ID NO: 5  
 153 <211> LENGTH: 20  
 155 <212> TYPE: DNA  
 157 <213> ORGANISM: Unknown  
 161 <220> FEATURE:  
 163 <223> OTHER INFORMATION: Human and rabbit cDNA sequences encoding the prolactin  
 receptor  
 164 were used to design the degenerate primer  
 166 <220> FEATURE:  
 168 <221> NAME/KEY: misc\_difference  
 170 <222> LOCATION: (3)..(3)  
 172 <223> OTHER INFORMATION: G/A *use "r"*  
 176 <220> FEATURE:  
 178 <221> NAME/KEY: misc\_difference  
 180 <222> LOCATION: (9)..(9)  
 182 <223> OTHER INFORMATION: G/A *use "r"*  
 186 <220> FEATURE:  
 188 <221> NAME/KEY: misc\_difference  
 190 <222> LOCATION: (16)..(16)  
 192 <223> OTHER INFORMATION: G/A *use "r"*  
 196 <400> SEQUENCE: 5  
 197 tggagaaaaga ggcgaatgggt 20  
 200 <210> SEQ ID NO: 6  
 202 <211> LENGTH: 20  
 204 <212> TYPE: DNA  
 206 <213> ORGANISM: Porcine  
 210 <400> SEQUENCE: 6  
 211 cggccgcaga atccctgtgc 20  
 214 <210> SEQ ID NO: 7  
 216 <211> LENGTH: 24  
 218 <212> TYPE: DNA  
 220 <213> ORGANISM: Porcine  
 224 <400> SEQUENCE: 7  
 225 accccaccc ttaaccatc atcc 24

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003  
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Input Set : A:\EP.txt  
Output Set: N:\CRF4\06122003\I900063A.raw

228 <210> SEQ ID NO: 8  
230 <211> LENGTH: 18  
232 <212> TYPE: DNA  
234 <213> ORGANISM: Porcine  
238 <400> SEQUENCE: 8  
239 caaggtggaa acatgagt 18  
242 <210> SEQ ID NO: 9  
244 <211> LENGTH: 20  
246 <212> TYPE: DNA  
248 <213> ORGANISM: Porcine  
252 <400> SEQUENCE: 9  
253 aatcctttta ttttggccc 20  
256 <210> SEQ ID NO: 10  
258 <211> LENGTH: 20  
260 <212> TYPE: DNA  
262 <213> ORGANISM: Porcine  
266 <400> SEQUENCE: 10  
267 gattatttgtc tgggcagtgg 20  
270 <210> SEQ ID NO: 11  
272 <211> LENGTH: 20  
274 <212> TYPE: DNA  
276 <213> ORGANISM: Porcine  
280 <400> SEQUENCE: 11  
281 aatcctttta ttttggccc 20  
284 <210> SEQ ID NO: 12  
286 <211> LENGTH: 20  
288 <212> TYPE: DNA  
290 <213> ORGANISM: Porcine  
294 <400> SEQUENCE: 12  
295 gattatttgtc tgggcagtgg 20  
298 <210> SEQ ID NO: 13  
300 <211> LENGTH: 23  
302 <212> TYPE: DNA  
304 <213> ORGANISM: Porcine  
308 <400> SEQUENCE: 13  
309 ctatttcaca aaaaactcgcc tac 23  
312 <210> SEQ ID NO: 14  
314 <211> LENGTH: 566  
316 <212> TYPE: DNA  
318 <213> ORGANISM: Porcine  
322 <220> FEATURE:  
324 <221> NAME/KEY: misc\_feature  
326 <222> LOCATION: (36)..(36)  
328 <223> OTHER INFORMATION: n = unknown at amino acid position 36  
332 <400> SEQUENCE: 14  
W--> 333 gattatttgtc tgggcagtgg tttttctgtt ctatcnaccc cccctccatt catggatctc 60  
335 agggtataat ggccaaaaaa aagacaagac aaaaatgtat gaaacctaca gataattyaa 120  
337 gcacccat ttgcattttt ctgcattttt cttttttctca 180  
339 gtgttagaaa aaaaacaaat agacttattt gaaactgtat ttctcttac caaagggtat 240

RAW SEQUENCE LISTING

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Input Set : A:\EP.txt  
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This is a  
nucleotide  
sequence

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TIME: 08:07:21

Input Set : A:\EP.txt  
Output Set: N:\CRF4\06122003\I900063A.raw

450 <210> SEQ ID NO: 18  
452 <211> LENGTH: 132  
454 <212> TYPE: DNA  
456 <213> ORGANISM: Porcine  
460 <400> SEQUENCE: 18  
461 acagtcacct ccggaaaaac ctgagatctt caaatgtcgt tctcccgaaa agggaaacatt 60  
463 cgccctgtcg tggaaagccgg gggcggatgg aggacttcct accaactaga cgctgactta 120  
465 ccacaaggaa gg 132

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003  
TIME: 08:07:22

Input Set : A:\EP.txt  
Output Set: N:\CRF4\06122003\I900063A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; N Pos. 36  
Seq#:15; N Pos. 49,67

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 13

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003

TIME: 08:07:22

Input Set : A:\EP.txt

Output Set: N:\CRF4\06122003\I900063A.raw

L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0

L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

M:341 Repeated in SeqNo=15

STATISTICS SUMMARY  
PATENT APPLICATION: US/09/900,063A

DATE: 06/12/2003  
TIME: 08:07:22

Input Set : A:\EP.txt  
Output Set: N:\CRF4\06122003\I900063A.raw

Application Serial Number: US/09/900,063A

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 07-06-2001

Art Unit: 1600

Software Application: PatentIN3.1

Total Number of Sequences: 18

Total Nucleotides: 2086

Total Amino Acids: 53

Number of Errors: 0

Number of Warnings: 3

Number of Corrections: 0

#### MESSAGE SUMMARY

341 W: 3 ((46) "n" or "Xaa" used)